

**IN THE CLAIMS:** Please amend claim 2 as follows:

1. (Cancelled)
2. (Currently Amended) A method of detecting PCR-amplified base sequences, comprising the steps of:
  - conducting PCR amplification by mixing a plurality of primer pairs with a sample, said primer pairs being suitable for amplifying different base sequences of a same length or different lengths by PCR;
  - conducting a hybridization reaction by using a substrate on which one primer of each of said primer pairs used for the PCR are fixedly spotted on spots thereon and a solution containing said base sequences that are PCR-amplified in the preceding step, said hybridization reaction being performed between the primers fixedly spotted on the substrate and said PCR-amplified base sequences; and
  - detecting at least one of the spots on said substrate in which the hybridization reaction occurs,
  - wherein said step of detecting the spots on said substrate in which the hybridization reaction occurs includes the steps of:
    - processing ~~a fluorescent material~~ an intercalating dye to enter in said PCR-amplified base sequences which are double-stranded DNAs; and
    - detecting fluorescence generated by exciting said ~~fluorescent material~~ intercalating dye contained in said at least one of the spots on the substrate.
3. (Canceled)
4. (Original) The method of detecting PCR-amplified base sequences according to claim 2, wherein each of said primers has a base number in a range from 10 to 30.
5. (Withdrawn) A detection kit for detecting PCR-amplified base sequences, comprising:
  - a container containing a mixture of at least three types of primers, including: two types of primers suitable for amplifying a first base sequence specifically by PCR; and two types of primers suitable for amplifying a second base sequence different from said

first base sequence specifically by the PCR; and

a substrate on which a plurality of primers selected from said primers mixed in the container are spotted..

6. (Withdrawn) The detection kit according to claim 5, wherein each of said primers has a base number in a range from 10 to 30.